QuantumSAP™ PCR Product Cleanup Reagent

Description

The QuantumSAP PCR Product Cleanup Reagent is a cost-effective alternative to ExoSAP-IT™ for effective removal of residual nucleotides and primers after PCR, which can significantly interfere with downstream applications like sequencing or genotyping. These contaminants can affect the primer extension reaction, leading to inaccurate or unreliable results. The QuantumSAP reagent contains two hydrolytic enzymes that inactivate the unincorporated reactants in PCR reactions. Exonuclease I (ExoI) degrades residual single-stranded amplification primers and recombinant Shrimp Alkaline Phosphatase (rSAP) dephosphorylates any unincorporated dNTPs so they cannot be incorporated into nascent DNA. These enzymes are active in commonly used PCR buffers, which eliminates the need for buffer exchange. The use of these enzymes together ensures that the PCR products are adequately purified, enhancing the reliability and accuracy of subsequent sequencing or genotyping assays.

Contents

QSSP-500	QuantumSAP PCR Product Cleanup Reagent, 500 reactions 1.0mL QuantumSAP reagent	Store at 4 °C
QSSP-2000	QuantumSAP PCR Product Cleanup Reagent, 2000 reactions 4 x 1.0mL QuantumSAP reagent	Store at 4 °C
QSSP-S50	QuantumSAP PCR Product Cleanup Reagent, 50 reaction sample 0.1mL QuantumSAP reagent	Store at 4 °C

Protocol

After your PCR reaction is complete, add 2.0µL of QuantumSAP reagent to the PCR reaction.

- Incubate at 37 °C for 10 minutes
- Inactivate at 80 °C for 5 minutes

The PCR product is now ready for sequencing or genotyping. The product may be stored at -20 °C until required.

Do not use the product if past the expiration date, if the tube or label is damaged, or if the tube cap is missing or damaged.

For research use only. Not for use in diagnostic procedures.
Made in USA

P/N 198820; RevB